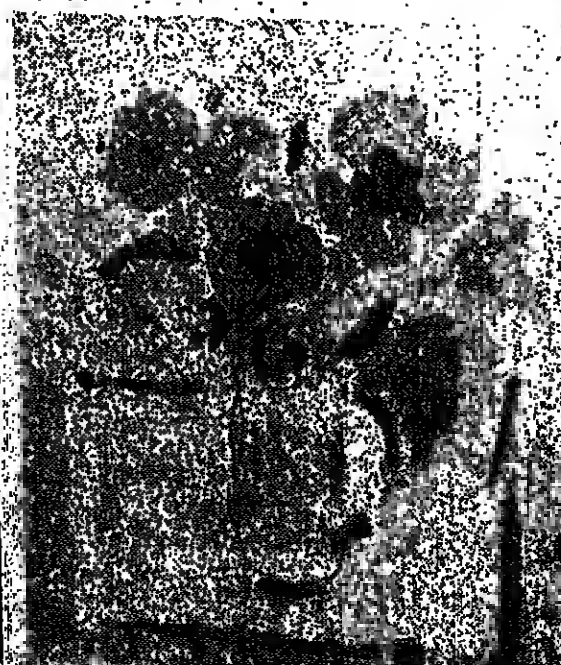


Painter Vasile Grigore (born in Bucharest in 1935), a graduate of the Nicolae Grigorescu Fine Arts Institute in the capital where he is teaching at present) practices, as the late fine artist and school founder Alexandru Cioculescu put it, "an art springing from frank, unselfish thinking, replete with joy, youthfulness and love of life. An expressive, simple and clear painting. A sense of the shape and colour born together through an intelligent observation and interpretation of life. Luminous, serene, tasteful painting, beautifully composed and skillfully achieved. Looking at it is most gratifying. His painting reveals a distinct personality and immediately compels admiration." This rather long quotation is most appropriate since in his simple yet inspired wording it accurately defines Vasile Grigore's art. In fact, critics noted as early as the painter's debut — with plain landscapes — that he would organize his plastic universe around two coordinates: reduction of the figurative material to its essence and expressive, addition of colour areas. Between landscapes, nudes and still-lives, Vasile Grigore would exercise his brush in the realm of lyrical vibrations, looking for chromatic harmony through the blend of poetic sentiment with the rigour of the touches. Most candid in his expression, the painter is not a spontaneous artist but rather one slowly and lucidly filtering the data of reality, meeting them into an original vision, basing vital suggestions and proposing a shape of light. His aesthetic programme is that of a passionate colourist having an obvious gift for capturing both the gentleness and the force of a feeling or space, dream or world of objects. His canvases evince an unrepeatable sense of inimitable colour and a frenzy of experiences.



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NICOLAE CRAIGYESCU'S SPEECH AT THE PLENUM OF THE CENTRAL COMMITTEE OF THE ROMANIAN COMMUNIST PARTY

Taking the floor at the close of the Plenary Meeting of the Central Committee of the Romanian Communist Party, RCP General Secretary Nicolae Craigyescu referred first to the overall economic-financial performance in 1987.

Stressing that new, important achievements were scored in Romania's socio-economic development, the speaker emphasized that the national income had grown by 4.8 per cent on the whole, to stand at more than 25,000 lei per capita. The national income averages 2,200—2,700 dollars per capita at the non-commercial rate of the dollar. As regards national wealth, it grew by 5.1 per cent, totalling 1,537 billion lei at the end of last year. The funds entrusted by society for administration to working collectivities in their capacity as owners, producers and beneficiaries grew by 4.4 per cent, amounting for 2,300 billion lei.

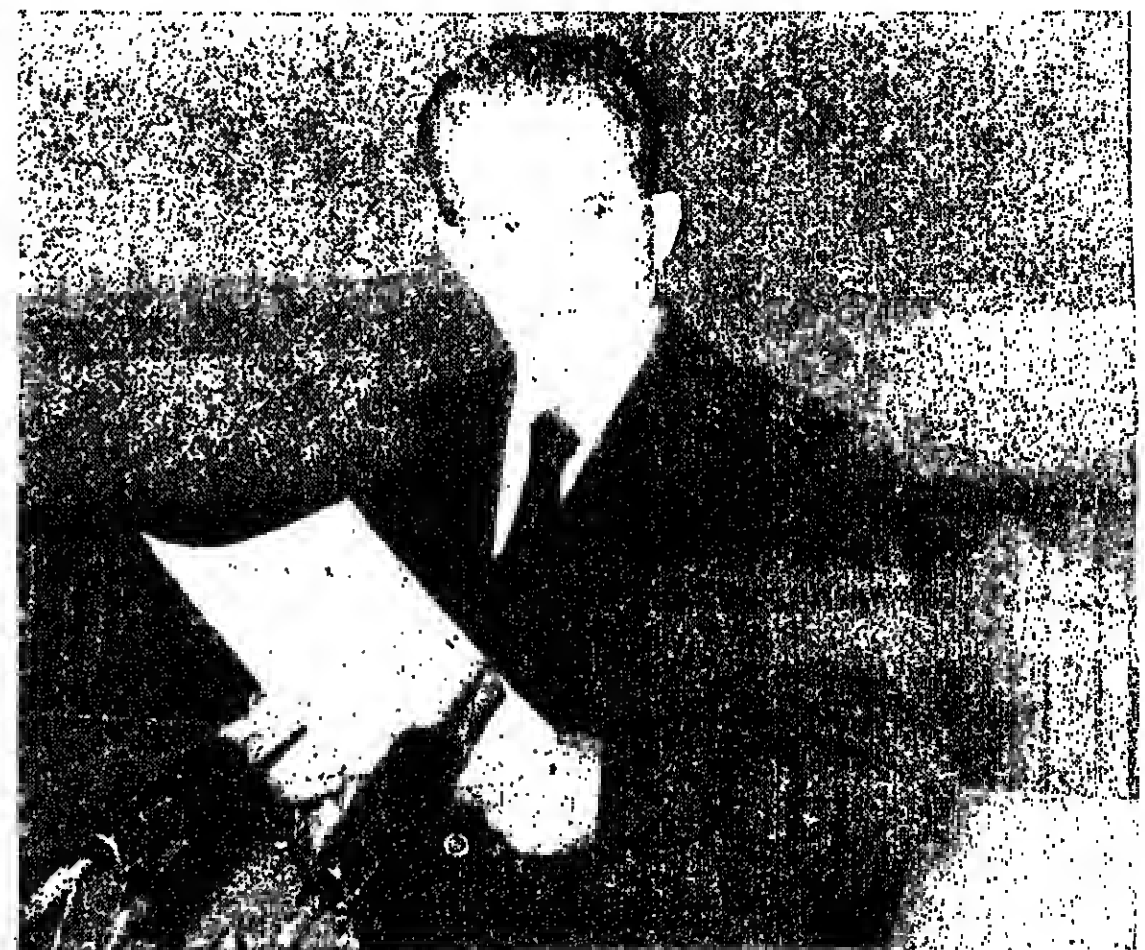
Further on, the RCP General Secretary referred to the fast development in industry and agriculture and to the big projects of socio-cultural interest, mentioning that the working people's incomes had increased while production and consumer goods prices had remained, on the whole, at the level of 1986, and even a little below that level. All this — the speaker said — is reflected by the rise in the entire people's material and spiritual standard of living.

Considering last year's activity generally good, Nicolae Craigyescu also showed that the provisions of the annual plan had not been fulfilled, and that the results of some units and sectors were below their possibilities.

Stressing that the Romanian socialist system continued to develop, all the conditions being in place for the fulfilment of the strategic goal of passing on to a new stage of development, to the achievement of a new quality of work and life until the year 1990, the RCP General Secretary emphasized that Romania's progress had been obtained in the complex conditions of the world economy which is well known to have grown at a slow rate. In this framework, President Nicolae Trausescu spoke at length about the worsening of the developing countries' situation, the increase of their foreign debts, the growth of the rich countries' revenues, mentioning that all these strongly showed the injustice of the present world economic relations, the division of the world into poor and rich countries and the widening gap between these two big groups of countries.

Showing that the world economic and financial forecasts for this year and for the next years dark and pessimistic, the speaker said that the negative effects of the world economy were felt, to a larger or smaller extent, in all states.

(cont. on p. 2)



THE GRAND NATIONAL ASSEMBLY SESSION



(SEE PAGE 2)

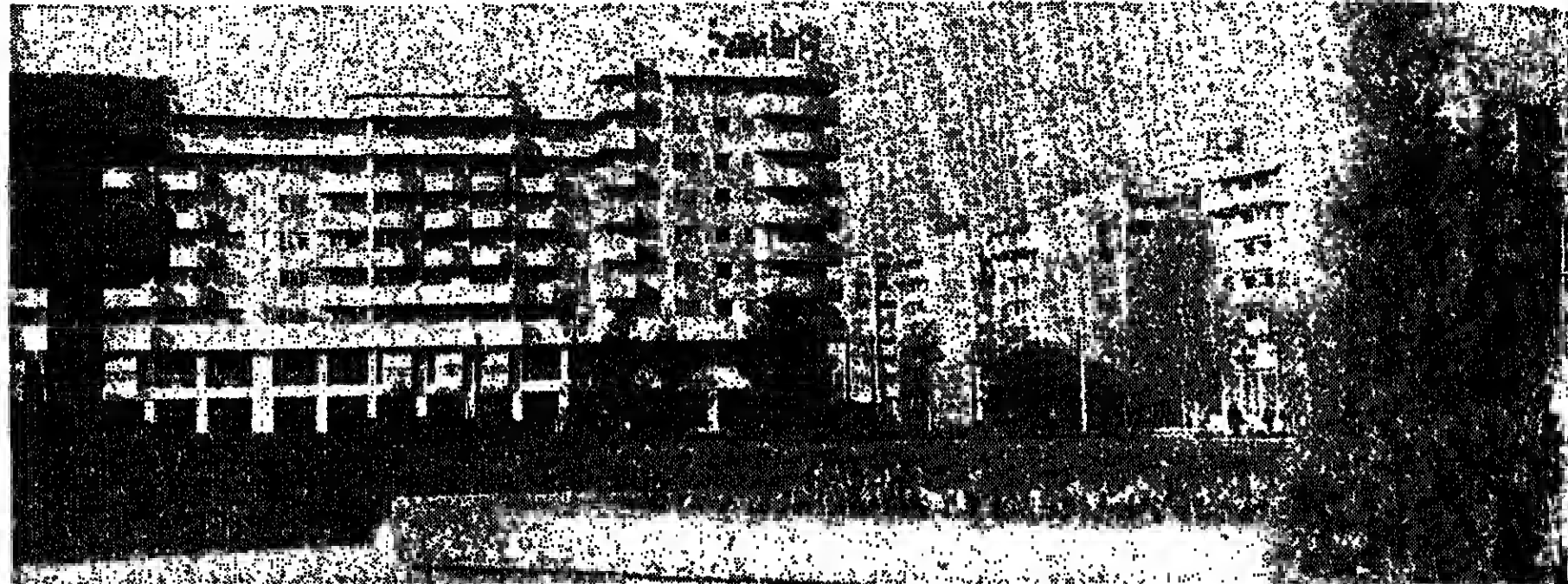
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A BALANCED ECONOMIC GEOGRAPHY



THE VOCATION FOR POWER GENERATION

In 1968 there were only seven counties where the volume of total economic activity reached 20 billion lei. At the end of last year, the volume of overall economic activity exceeded 100 billion lei in 15 counties, while the other counties also recorded significant growths. What has happened in these two decades is obvious to anyone curious enough to buy two economic maps showing the projects built all over the country during this interval.

Two decades ago, when the Grand National Assembly passed the law on the country's new territorial organization, Gorj ranked among the counties having the lowest economic development levels. The industry was represented by a few small for timbering and primary processing of the wood from the Făgus and Vlăscăuș forests, small mining and building material units, the first oil der-

the largest producer and supplier of energy-producing coal — at the beginning of the year the amount of lignite mined and supplied to thermopower plants and to the population attained a record of 100,000 tons a day, which were produced by the over 40,000 miners working in underground and open-pit mines in the Rovinari, Măruș and Jiu coalfields. The thermopower plants at Rovinari and

Turceni were successively put into operation, their potential being almost equal to that existing in all the country's power-generating units two decades ago. Gorj county's power sector also includes the Cernă-Moșu-Tamara hydroelectric and power complex with four hydroplants in operation, the microhydroelectric plants on the rivers Sadu and Ghîrău, which very soon will be joined by the Electric Heating Plant in Tîrgu Jiu and a string of hydroplants on the middle and upper course of the Jiu, which will rank Gorj among the counties making the largest contribution to Romania's energy balance. Hydrocarbon extraction has been expanded over the entire Subcarpathian region, from Bilișeni, Tîrgu Cărbunari and Zărnescu to Slobozia, Săvârta,

● According to the provisions of the National Programme for territory and locally planning in agreement with the socio-economic development of the country's counties and with the people's ever growing living standard important investment funds were allotted, 52 percent of the country's population living today in new homes. A large number of apartments have been built in Argeș, Bacău, Botoșani, Gorj, Noam, Suceava, Vaslui, Vitea and Vrancea counties which had registered areas in this respect.

● According to plan provisions, some 4,100 flats and shops covering over 10,000 sqm. will be built in Cluj county this year. They will harmoniously integrate to the architecture of Cluj-Napoca, the county seat, of Turda and Dej municipalities, of the towns of Gherla, Cimpia Turzii and Roșia, as well as of some industrial-agrarian centres.

● In the last 22 years the share of the urban population has grown from 33.7 percent to over 56 percent.

Vălnia and Stoilari.

Today's Gorj is a county with a complex, diverse and modern industry. Alongside the development of coal, oil and gas extraction and power engineering, powerful units of the machine building industry have been created, noteworthy among which are the enterprises manufacturing pressing and forging machine tools and mining

equipment in Tîrgu Jiu, the mining equipment ones in Vălnia and Moșu, and the chemical ones at Bumbești-Jiu. Also built have been the enterprises for rubber technical goods in Tîrgu Jiu and the gas processing plant at Turburea, as well as woodworking and building materials enterprises.

MARIN COANDĂ

ONE YEAR LASTS 23 DAYS

Counting among the administrative-territorial units which opposed on Romania's map 20 years ago Bistrița-Năsăud county's economic and social development continues, it too, the rightness of the policy of harmonious flourishing of all the country's areas. From Năsăud to Bistrița, from Singora-Băi to Bistrița, from Rodna's coalfield to the Transylvanian Plain the county's towns and communities are all powerful industrial, agrarian and cultural centres. The highly processed products of the metallurgical, chemical, electrotechnical, machine building, light and food industries — turned out in enterprises furnished with updated equipment — successfully help to carry out the priority programmes of the national economy. At the same time they have be-

come well known and appreciated by many countries of the world. Presently, the county boasts 28 enterprises of various importance, created over the last 20 years, adding to what are others of local importance. New jobs have been created with the gainfully employed population increasing from 31,000 in 1950 to almost 60,000 in 1970. Also significant is the fact that the county's output value scored in 1970, now achieved in only 23 days. The dimensions and the substance of the economic thriving are also shown by the value of the county's fixed capital — 1.1 billion lei, as compared to only 100 million lei registered 20 years ago.

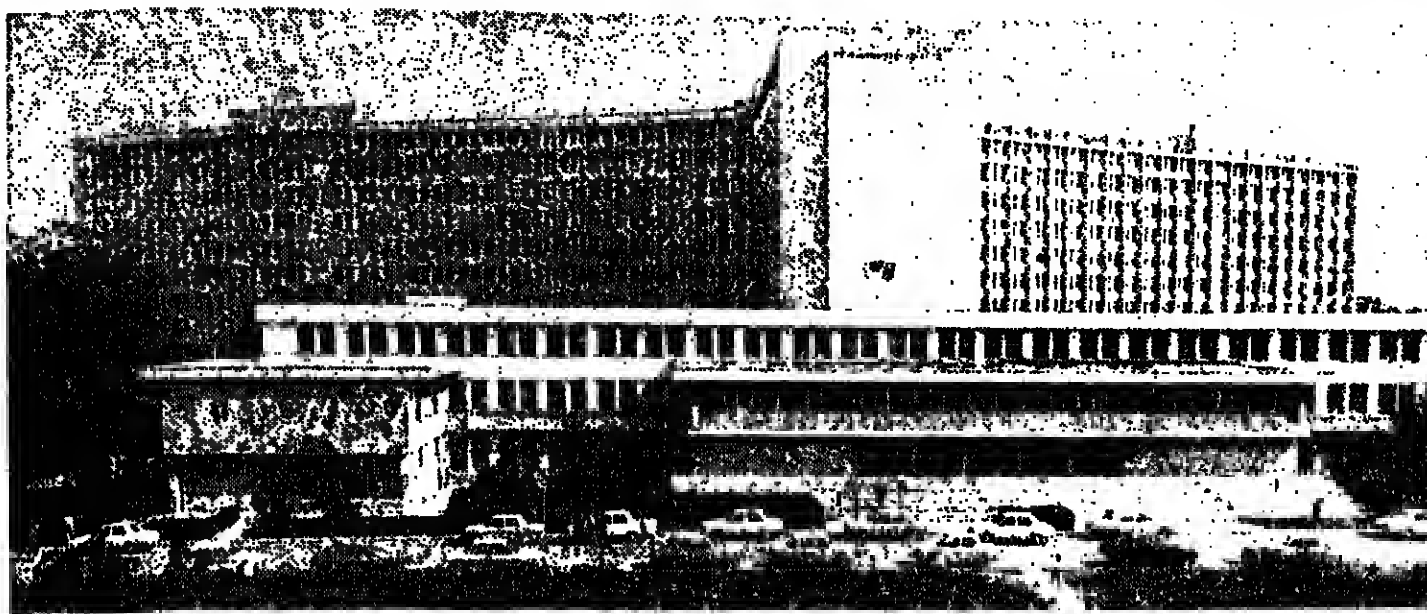
NICOLAE VÂRZA

ribs at Bilișeni and Tîrgu Jiu, and the first lignite mines that laid the foundations of the current Rovinari coalfield.

The impressive investment funds, worth more than 100 billion lei, that were earmarked for the county made possible the transformation of Gorj into

On page 4: the pier of the Brăila (top); the transformer station of the Turceni thermopower plant (middle left); the central pier of Tîrgu Jiu municipality (bottom).

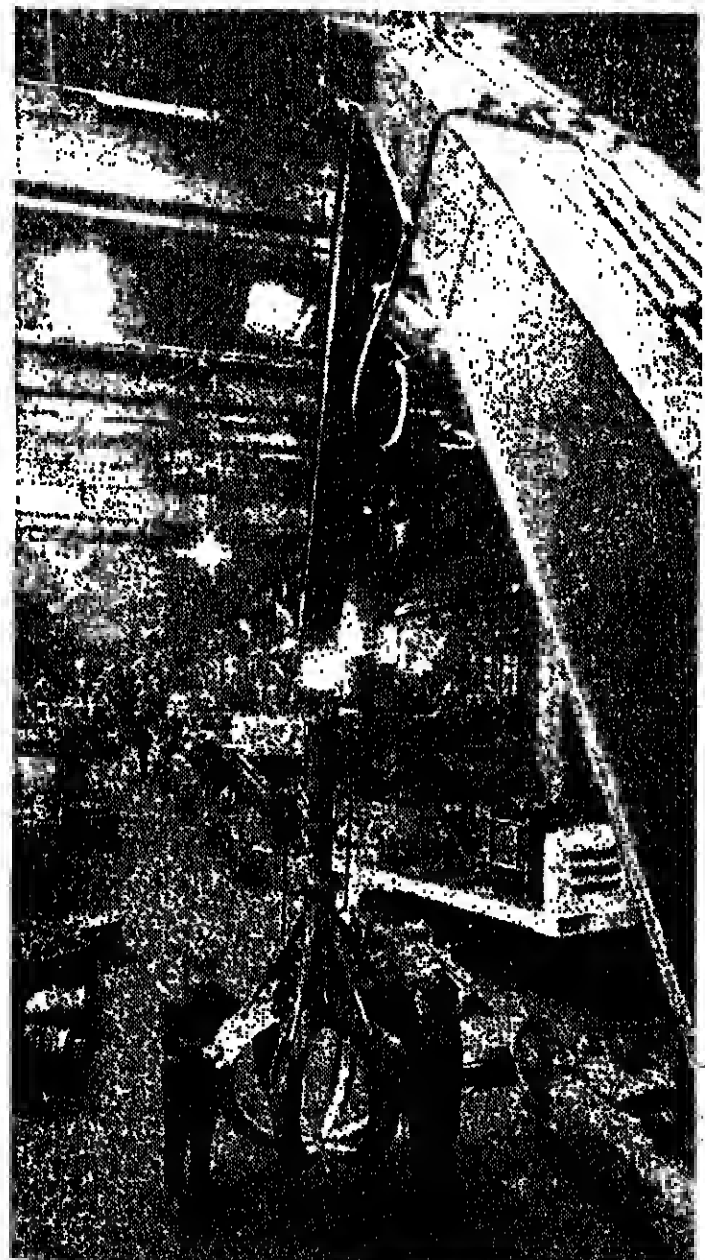
On page 5: the Constanta municipal hospital (top); the Brăila Shipyard (middle right); the assembly workshop at the Progress Enterprise in Brăila (middle left); an assembly line at the Bistrița Mechanical Enterprise (bottom).



THE CAPITAL OF ROMANIAN EXCAVATORS

During the first quinquennium after the Ninth Congress the Progress heavy-equipment enterprise in Brăila turned out on

certain technological lines and independent equipment. Some special rolling programmes are also made here.

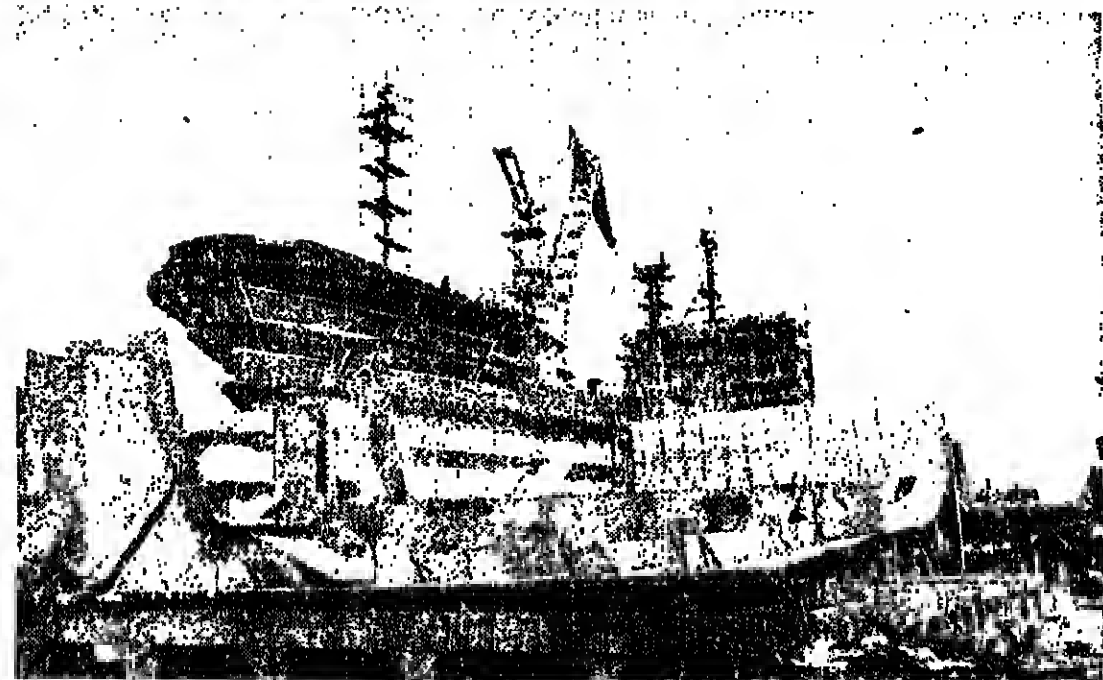


Industrial output worth 4.7 billion lei. Presently, the value of production put out here in a five-year plan period is five times larger than that scored in the above-mentioned period. From an enterprise with outdated technologies and a routine production, it has grown into a real "giant" of Romanian excavators, rated as a standard unit in its branch. Over the last two decades export availabilities have grown substantially, with beneficiaries from more than 20 countries using some 3,000 excavators and over 100,000 tons of technological equipment.

The Laminorul enterprise, which manufactures now more than 1,000 types of iron and steel products, has also undergone a stepped-up development as a consequence of updating rolling mills and drawing works of communications highly productive machines, modernizing

A similar evolution has been registered also by the shipyard. In 1955 it built only 50 and 100 hp boats and 1,000 and 1,700-hp barges, dredges and bridges. Presently the shipbuilders of Brăila build 8,000-dwt cargo boats, multipurpose tanks of 3,400 and 5,000 dwt, 6,000-hp tug boats, super trawlers, etc. The share of the export-bound production of 1983 rose to 40 per cent, 17 times larger than that scored in 1955. Special attention has been paid to housing construction. In 1955 the number of apartments rose to 3,100, whereas now it has exceeded 97,000, all these housing units being constructed in the great residential areas of Progress, Căldărașilor, Dorobanți, Hîrtoara, Obor and Văzlui. Consequently, combined was a new county hospital with 700 beds, coupled with a polyclinic and a hospital of obstetrics, gynaecology and pediatrics, all these health units being provided with modern equipment.

CEZAR HILJESCU



THE COUNTRY'S BIGGEST SEA GATE

How can Constanta county be defined today?

First of all by the fact that Romania's biggest sea port is located here. Its capacity, now under development — places it among the world's largest dock basins. Romania's "blue waterway" — the Danube-Black Sea Canal — is also part of this county's economic geography. The sea canal — Porla Albă-Midia Năvodari, with broad perspectives of efficient use for the river-sea navigation was recently "put" into work and earth in the same area.

Constanta county is the place where the biggest Romanian merchant ships — of 150,000 dwt are built and the place where sea drillers carry on their activity, these men who have recently succeeded in obtaining the first oil quantities from the sea reserves.

At Cernavodă, on the territory of Constanta county, the first nuclear electric plant in Romania is under construction.

Dobrogea's arid and dry lands were turned into real flourishing gardens, Constanta county

being the country's agricultural area mostly irrigated — 80 per cent of the arable lands.

These are only some of the landmarks of rapid development which in the language of figures could be found in several suggestive comparisons. The annual average growth rate of industrial production during 1963-1970 was 15.5 per cent, higher than the country average.

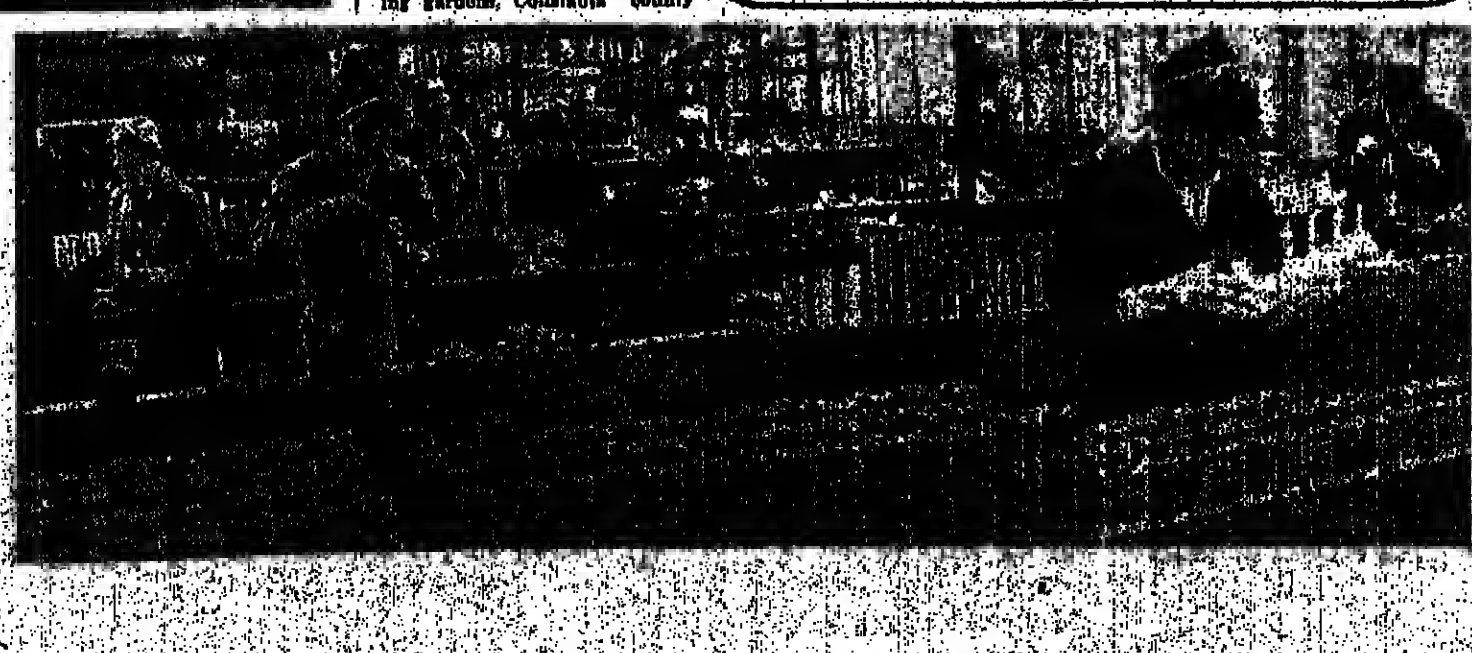
Today Constanta achieves 33.9 per cent of the country's total production of chemical fertilizers with phosphorus 13.1 per cent of the black oil and 10.1

percent of the Diesel oil production, 10.1 percent of sulphuric acid, and 10.7 percent of cement productions, etc.

Over 200,000 apartments have been built, over 50 percent of the population living in new, modern and comfortable homes. While two decades ago there were 1,552 permanent shopping units with no area at over 111,000 sqm. at the disposal of the population, today their number has reached 2,733 with a shopping area of 340,000 sqm.

CONSTANTIN ISMAILEANU

● A new river and sea port along the Danube-Black Sea Canal has been commissioned in Bănești, Constanta county, one of the country's youngest towns. The port can annually handle some one million tons of various merchandises and boasts operational berths, with cranes and other port installations for loading and unloading goods, berths for the coast and maintenance of the county's fleet, as well as berths for passenger. A terminal has also been completed, as well as a platform covering nine hectares, warehouses and other facilities. The first ships have already been unloaded in the new port.



PLASTIC SURGERY

21-year-old milling machine-operator Marin Mirza made a second mistake: while working he reached out for an object above the milling cutter disk. The milled cuff of his overalls got hooked in the screw-cutting circular saw and pulled in his hand. When he was taken to the hospital, his arm hung on only a tiny strip of skin. Now, after the operation, he has again two hands, using them like any healthy man...

The clinical chart of the 17-year-old patient Năstase Mădăraș showed the following diagnosis: "serious traumatic injury, by laceration, in the right third of the right forearm, with the destruction of the extensor and flexor musculature and the cutting of the radial nerve." The girl's hand remained paralyzed for the rest of the day. Never over again could she play the mandolin, her parents kept lamenting. Mădăraș herself did not realize immediately the possible consequences of the accident. Consequences? The girl's hand was paralyzed indeed, it was a paralytic; her supple, flexible fingers can now break again the strings of her mandolin...



For M. Dumitru, the unfortunate occurrence will always be something to remember: he was taken to the hospital with his right arm completely cut in the inferior third. Anybody could have said it was a hopeless case. But not professor Agrippa Ionescu, team of surgeons. The operation lasted ten hours: all the anatomic elements were sutured in place. M. Dumitru can now work and drive his car with his hands. But the hand replanting opera-

tion of the Emergency Hospital, with 50 beds for hand surgery and 30 for patients with burns. Dr. Agrippa Ionescu was 32 and had just received the title of professor. His name came to be linked with the advent of a separate specialty — plastic surgery — as distinct from general surgery. It proved so useful that after one year the "hand hospital" had to move away, leaving room for the clinic which, in its turn, became a real hospital. A team of doctors clustered around Dr. Agrippa Ionescu who gradually took up other fields of research and operation. For instance tumors, chronic ulcers, radionecrosis, elephantiasis. But in order to reach today's skillfulness in the complexity of operations performed in the clinic, the team has made heroic efforts. Many times tests had to be resumed over and over again. Studies, researches and again studies and again... For example, in the case of tendon surgeries

(which used to be quite rare, although now such operations are performed frequently) — on long accurate sections were required: when should a tendon be operated on? What is the best time to suture the nerve? Or, in other, initially misleading, situations: what treatment should be applied to a burnt patient who has also suffered from fractures? All these questions were brought to a climax as soon as the "reparatory" surgeons came into possession of a microscope, first sutured the replantation of a hand. For an important arsenal of instruments which "re-make" thousands of hands or "put back" thousands of nerves is quite fascinating; the surgery microscope with two or three oculars, kills for interventions under microscope containing the whole range of fine needles for a traumatic suture. But, above



LIFE AT MINUS 196° C

Do you know who "Gie" is? It is the first calf to be born out of a frozen embryo obtained after a surgical transfer by the specialists of the Research and Production Station for Cattle Breeding at Slăvești de Mureș, a locality not far from the town of Târgu Mureș, the seat of Mureș county. We wrote about this in June last year when the event took place.

Here we now look at the embryo transfer lab at the above mentioned station where a new performance was registered. Another calf, called "Gibescu", was obtained by means of the non-surgical transfer technique, a fact opening a new stage in the application of this technology in production. The calf was born in February. It weighed 33 kg and was perfectly healthy.

The donating cow was polyovulated and artificially inseminated. The embryos thus obtained were frozen and preserved in liquid nitrogen at minus 196°C in the station's embryo bank. After 42 days, one of the embryos was thawed and transferred in the receiving cow without using surgery. After the normal period of gestation the calf was born.

The collective working on this first to be made of Dr. Emil Silvas, the director of the station, Dr. Lucian Flăcăoara, phenol Salina Sălcia, Dr. Lucian Mădăraș, Dr. Henke Enăile, Simona Vălcu, Biologă Sarmașchiu, Iacobina Răduț and Ioan Florentin.

M. CONSTANTIN



all, one is left speechless by the fact that the embryo should be several times thinner than a hair.

The great majority of new transplants, accompanied by irregularities, anomalies, malformations, such as: clefts, vesicles, nerves, heart, respiratory of location, are to the child of plastic replanting surgery. For this category of patients, Dr. Agrippa Ionescu devised a radical treatment: "the large postponed active embryo." In fact, the progress is a quality of medical assistance, raising the entire team that has been destroyed, creating a new life for the child.

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In fact, the progress is a quality of medical assistance, raising the entire team that has been destroyed, creating a new life for the child.

VIORICA CIOABĂ

Surgeon Agrippa Ionescu (top right) performing operation some time ago. Today the patient has completely recovered (bottom left): a complex apparatus used in checking industrial electricity supply (bottom right).

RESEARCH NEAR THE PLANT

The time when scientific events were staged only in Bucharest and a few other towns in Romania is already part of history. Contemporary realities show a rapid, necessary transformation. Over the last two decades research institutes, scientific sections, branches and collectives working on the basis of programmes coordinated by state of national importance have been set up in all major towns.

At the same time, a number of cities such as Bala Băne, Suceava, Sibiu, Oradea, Cluj, etc., have become university centres. The building of important industrial areas has made it possible to effectively apply the modern concept of integrat-

ion of education with research and production. National salons of invention science have been hosted by nearly all county seats, while all-country sessions of scientific reports are frequently staged in Bala Băne, Pitești, Brăila, Botoșani, Craiova, etc.

Towns which once stood in the shadow of nearby metropolises, such as Arad (a locality lying near Timișoara city), now have a throbbing scientific and technical life of their own. A branch of the machine tool research and design institute supplies manufacturing documentation for the well-known Victoria works which turn out flexible machine processing ap-



HIGH STANDARDS

The enterprise for making equipment in Bala Băne, Maramureș county, is engaged to do ambitious programmes of updating existing technologies.

As the enterprise's product list includes more than 1,000 items, the main question of the moment is the reliability of the manufacturing processes. A systematic, unitary outlook on design and production has been worked out to this respect.

In a first stage, the parts used were unified and typified; so that a greater number of sub-assemblies for the products manufactured may be obtained with a limited number of item types and sizes. There followed the typification of the sub-assemblies, so that a small range of them may be used for a larger number of products. The typification is part of size and construction continued with the unitary execution of products by families of products, each family comprising a variable number of types and sizes of typical equipment, having a generally common destination but differing in point of size, technical-functional characteristics, parameters etc. This phase marked the application of a concept: the flexible organization of the manufacture by families of products (materialized in an increase of small-series production by a minimum 30 per cent and the 10 per cent reduction of the fabrication cycle).

Naturally, the activity of technical and technological improvement continues in the field of

welding, for instance, a robot with six degrees of freedom is in the works; also to a forward stage of completion is the design of a high-precision digitally controlled welding manipulator coupled in a flexible cell with the gantry robot, which will create conditions for launching the production of flexible cells for molded arc welding. The same type of robot will be used as part of a flexible cell for mechanical processing, serving three or four machine tools at a time.

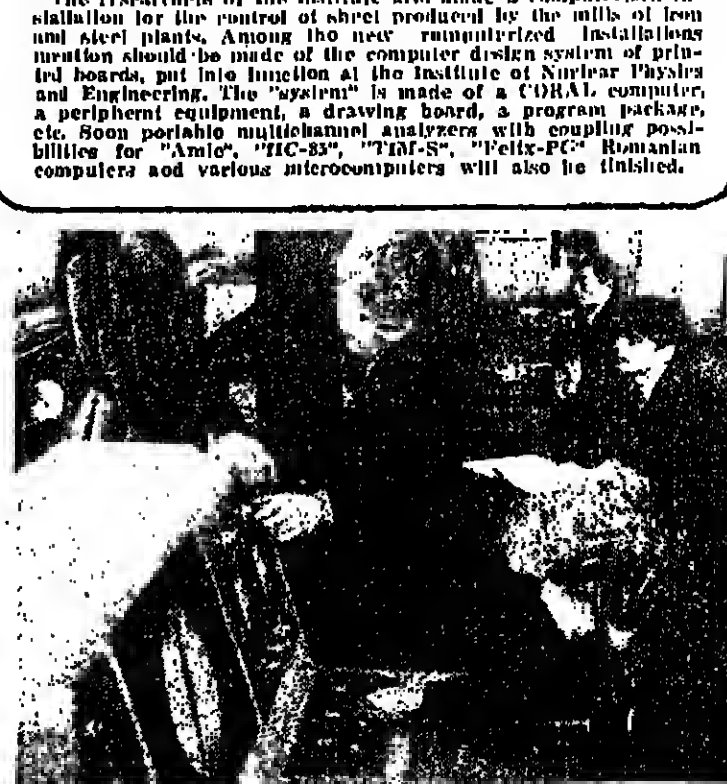
MIRCEA STELIAN



ULTRASOUNDS, RAILWAYS AND COMPUTERS

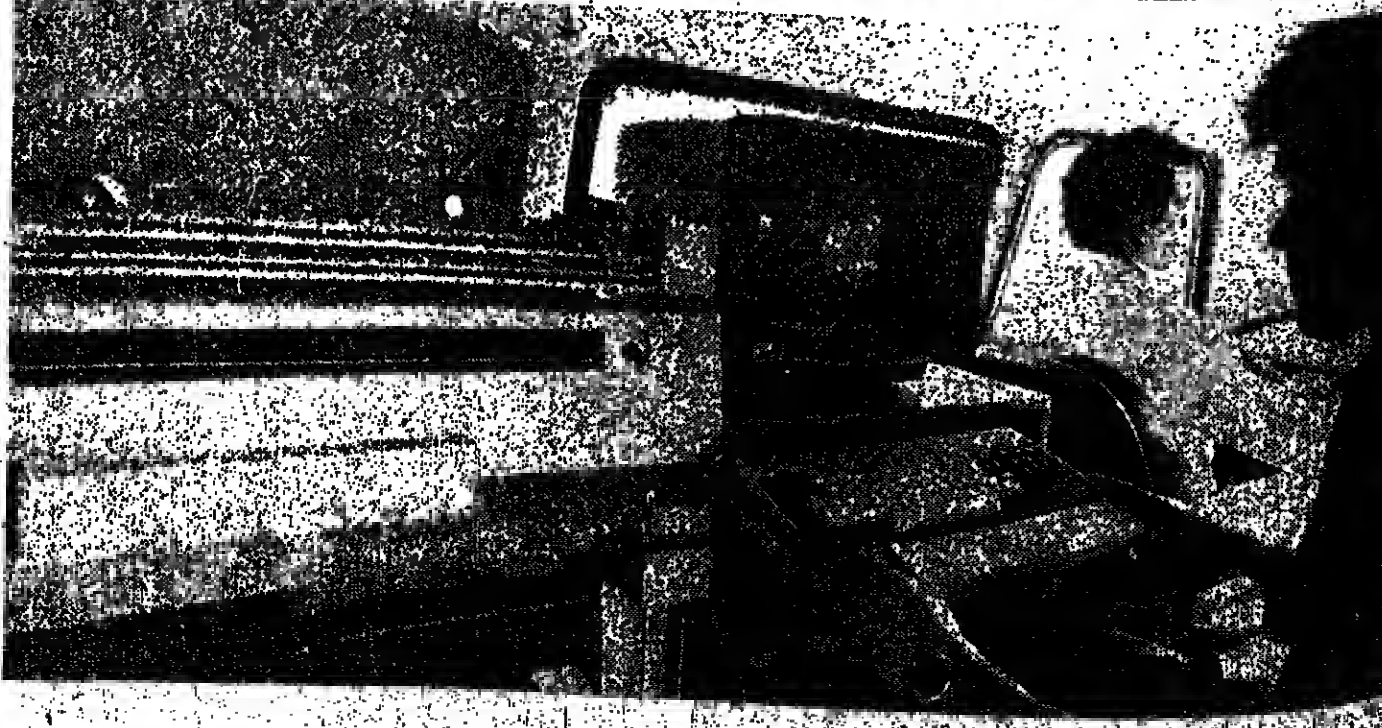
The Romanian Institute of Material Physics and Technology in Bucharest designed and produced new non-destructive control equipment, among which two types of ultrasound apparatuses checking mounted railroad rails. These creations allowing the increase of the security degree of railway traffic have been generalized to the whole country. Two other types of apparatuses based on ultrasound were created for the portable directoscope meant for the control of weldings. These installations can be assisted by computers. The same institute of Material Physics and Technology obtained a high quality phosphor material. This material allows the intensifying of the range of non-destructive control installations and apparatuses. Control installations for pipes, bars, ingots, etc. were designed and made in the country.

The researchers of the institute also made a computerized installation for the control of sheet produced by the mills of Iron and Steel plants. Among the new computerized installations mentioned should be made of the computer design system of printed boards, put into function at the Institute of Nuclear Physics and Engineering. The "system" is made of a UHAI computer, a peripheral equipment, a drawing board, a program package, etc. Soon portable multichannel analyzers with coupling possibilities for "Amio", "IC-85", "TIC-S", "Felix-PC" Romanian computers and various microcomputers will also be finished.



THRIFTY ROBOTS

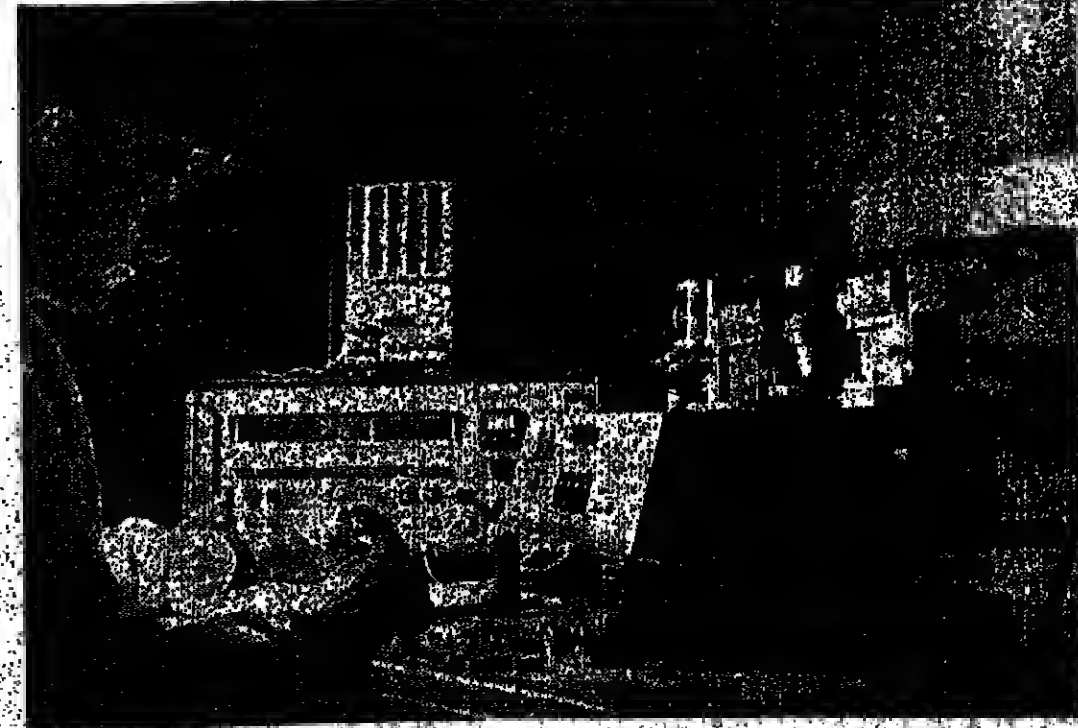
Electronics firm of Hunedoara ranks among the three European enterprises manufacturing drives for high-power low-speed synchronous electric machines used in the current and are preparation turbines. Over the last few years this prestigious Romanian unit has assimilated in its mass production numerous types of speed variators for direct current motors as well as for synchronous and asynchronous motors. Recently devised with the help of researchers and designers were speed variators for machine-tool and industrial-robot drives. It has been calculated that the generalization of speed variators will bring about an annual electric power saving of over four billion kWh.



SIGNALLING COMPUTER

Romanian experts in mining technology have devised a computerized station which can supply information concerning the underground atmosphere in different spots during cycle exploration. The cycle lasts a few minutes, an interval during which each spot is surveyed for five seconds and comparing of the preestablished levels of gas concentration is signalled and the evolution of risk parameters and the adjustment of alarm systems are monitored. The data are displayed numerically. The installation is equipped with video terminals.

A department of the Institute of Nuclear Physics and Engineering (top right) is a laboratory of the Metallurgical Research Institute (middle left) working on the development of the high-precision digitalizing machine (middle right) in the laboratory of the Non-Ferrous Metal Research Institute in Bala Băne (bottom).





COMPETITIVE EQUIPMENT

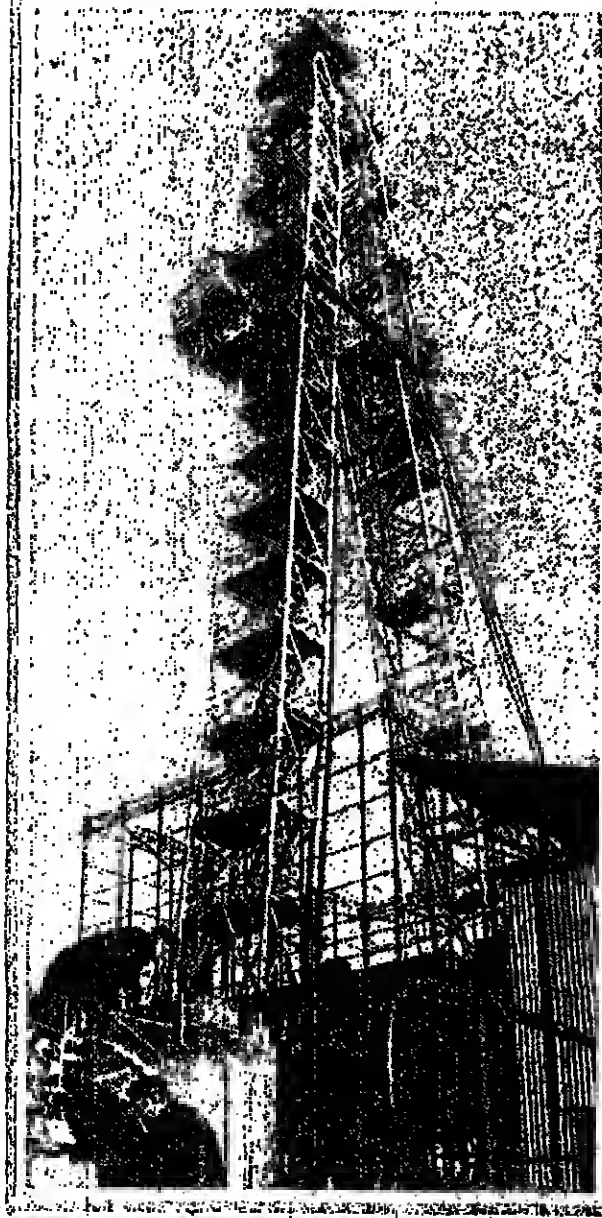
The primary programme of the Mechanical Enterprise in Timisoara includes several trends having in view the modernization of production. Within this programme, the enterprise produces cranes, excavators, transport machines, rolling bridges, multi-rollers, stress has been laid lately on the range of equipment for the mining industry. Within the 27 families of products made up of over 200 types, the technical and economic parameters have been successfully analysed, and measures have been established for their improvement. At present, the state has been reached when all the products have competitive parameters.

The share held by mining equipment in overall production has grown to over 32 per cent. Mechanized face supports, piling and dumping machines for coal deposits, mounted roller haulers are manufactured today. Some of these types of equipment are exported to such countries as Egypt, Poland, China, Syria, etc.

In this photo, you can see how a complex machine for underground mining.

A NEW STAMPING METHOD

A new method of stamping certain products was applied at the Oil Equipment Enterprise in Timisoara. The replacement of the classic stamping with the multilevel one presents numerous advantages: it increases the output factor of alloyed steel 2-3 times, increases labour productivity and product quality. The technology, designed by the specialists of the enterprise, was applied with good results in the fabrication of certain high metal consumption parts had been registered, and could be also used in obtaining other products.



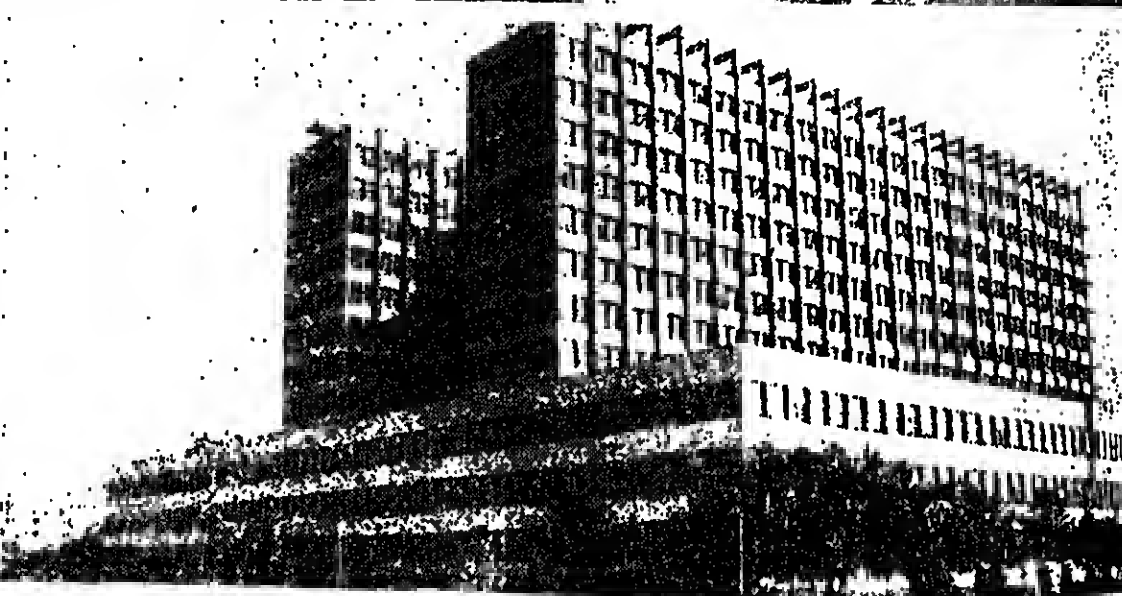
ACTIVE POLYPHENOL

Seen, a modern drug factory will come into operation in Targu Mures. Its location in this town is not accidental, since the municipality witnesses a powerful activity of medical research concentrated mainly in the pharmaceutical higher education institute.

Several research teams have focused on the capitalization of the active principles in fruits, namely on the extraction of pectin — a substance having therapeutic qualities — from quinces, apples and pears, and then turning to alcohol of chestnut leaves extracts from which following multiple scientific investigations, an active substance — Cory-



The specialists of the Glass and Faience Enterprise in Sighisoara in collaboration with research from the Cluj Napoca branch of the Research and Design Institute for Glass and Fine Ceramics in Bucharest obtained a new material meant for the production of the household ceramics. It is called phosphoric porcelain and has a high degree of white and transparency compared to the classic one. The use of this new raw material in the production of household items allows the growth of economic efficiency, a production volume five-six times bigger being obtained from a lot of phosphoric porcelain than from the same quantity of common porcelain. This year, Sighisoara ceramic workers will obtain 300,000 household and decorative products from phosphoric porcelain.



MIRROR-LIKE SHIPS

Imagine yourselves a high, seven-decked block of flats with its surface as brilliant as a mirror. A possible architectural variant. However, it is hard to believe that a ship, equivalent in height to such a block, can have its interior surface as brilliant as a mirror. Still!

Over the last years, the shipyard of Braila, sited on the Danube's bank, has introduced numerous original technologies which have allowed for the modernization of the make process. One of them refers to "mirrors".

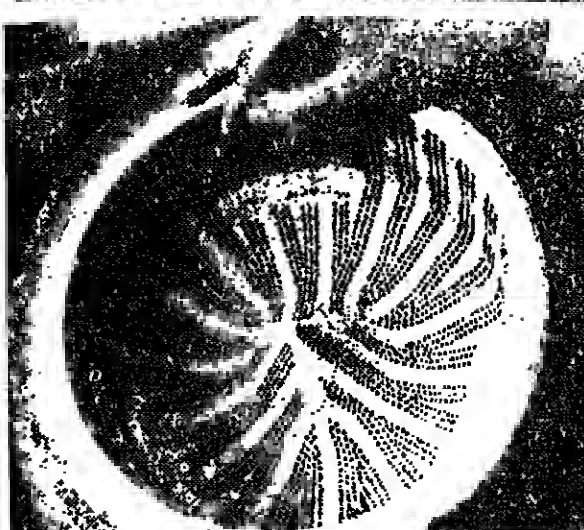
It is known that in normal conditions a ship's life lasts no longer than 25 years, according to international standards. It depends, to a large extent, on the autocorrosive protection of the respective vessel. Usually the interior part of a ship is cleaned every two years. Since the first ship was built in the world specialists have been concerned with finding the most efficient technology to protect the life of the vessel, especially of the part under the water-line, which is most attacked by water salinity and a series of chemical agents.

The specialists of the ship repairing department can by engineer Radu Poirescu, have designed an extremely efficient method to help clean the ship's body by abrasive blasting, removing entirely rust spots from interior surfaces. In this and

The product list of the Mechanical Enterprise in Vaslui has been recently enriched with a new product introduced in current fabrication by a subcontractor of the "Servomont" family, a power of 3,500 hp, the most powerful of the made in the country units now, a high-tech engine, conceived by the enterprise's specialists. Mounted in automobile engines of electric and hydraulic plants they ensure the high precision control of the movements in these installations in conditions of increased security. It has a high degree of reliability, reduced generating capacity and low power consumption.



C. MARIAN



DIAROM

Do you know what DIAROM stands for? A section of the Enterprise at Special Drillings and Geotechnical Works in Bucharest. It was set up in 1970 for the purpose of introducing new technologies in the production line and supplying modern, sophisticated tools to the drilling units. The DIAROM trademark borne by these reliable tools is based on an American license. In the photo: a site for drive shaft, with diamonds.



SMALL PARTS PROCESSING

The first processing centres — horizontal and vertical — meant for processing small size parts entered fabrication at the Machine Tool Enterprise in Iarghita. Also the computer assisted milling machine for tools — Fin-22 — was launched into production.

The network of health care units has been enriched with new buildings. Among them is the Obstetrics-Gynaecology Hospital in Iasi, the Mother and Child Block in Slatina, the Emergency Unit in Balabanesti, a section with over 200 beds at the Obstetrics-Gynaecology Hospital in Brasov. New dispensaries and polyclinics have also been erected in the vicinity of hospitals, a fact contributing to the quality increase of health care ensured by the medical network with ambulatory character.

At present, new buildings are under construction. They will host the Bucharest Oncology Hospital, and hospitals in Ghurgiu, Alud, Iovani, Adjud, Otetul Roșu and Negrești-Iliș. On the Jiu Valley an Urgent and modern accident unit, also housing a polyclinic is under construction.

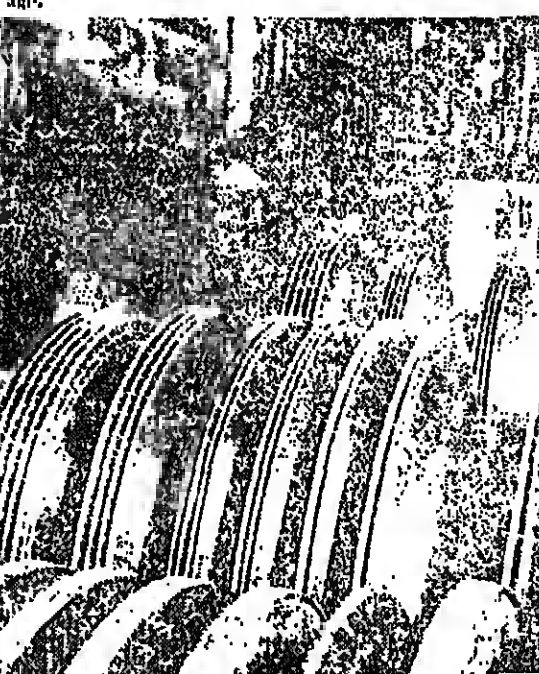


COKE AND WELDING

The Institute of Scientific Research and Technological Engineering for Petrochemistry and Metallurgy in Ploiesti has achieved, with the assistance of several enterprises in this country, a burning kiln with revolving table for turning out oriented structure coke, an important raw material for the manufacturing of iron-and-steel alloys. The coke produced in this kiln allows of broadening the range of electrode types and of hard, stainless highly alloy steel of various profiles. The plant, having a high automation degree, is equipped with a burn-gases recuperation and a 12-MW turbine, producing electric power for various technological processes. The new Romanian technical and scientific achievement is now used by the coal products enterprises in Sibiu.

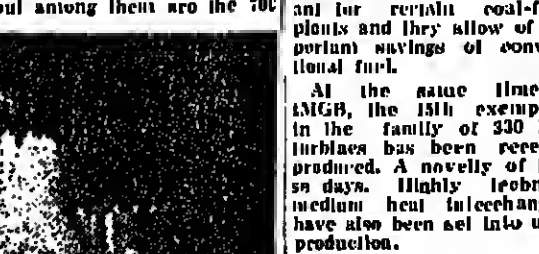
GYMNASY AT THE ZOO

At Hâncușa Zoo, a delicate scientific work is carried out for the benefit of animals brought there from other countries. Transferred from their habitat they suffer from the stress of accommodation becoming not only apathetic but also with a low resistance to diseases. With love and skill, veterinarian physicians and biologists invent a series of preventive therapies arousing interest at world congresses in the field and being included in treatises of animal pathology published in other countries. They found out that the heavy bears suffering from pulmonary emphysemas and violent fever had a virus similar to the Hong Kong flu in their nasal secretion. They neutralized the virus by means of a treatment with antibodies and antigens according to an original prescription. The digestive diseases of Siberian tigers was proved to be an adaptation syndrome with surprising echoes in the digestive tract and not an affection with alimentary etiology. A combination of tranquillizers, hormones, vitamins and immunocorrectors prepared reduced the beautiful tigers' gastric problems. With Anilamid applied to elderly apes increased their life span beyond the known age.



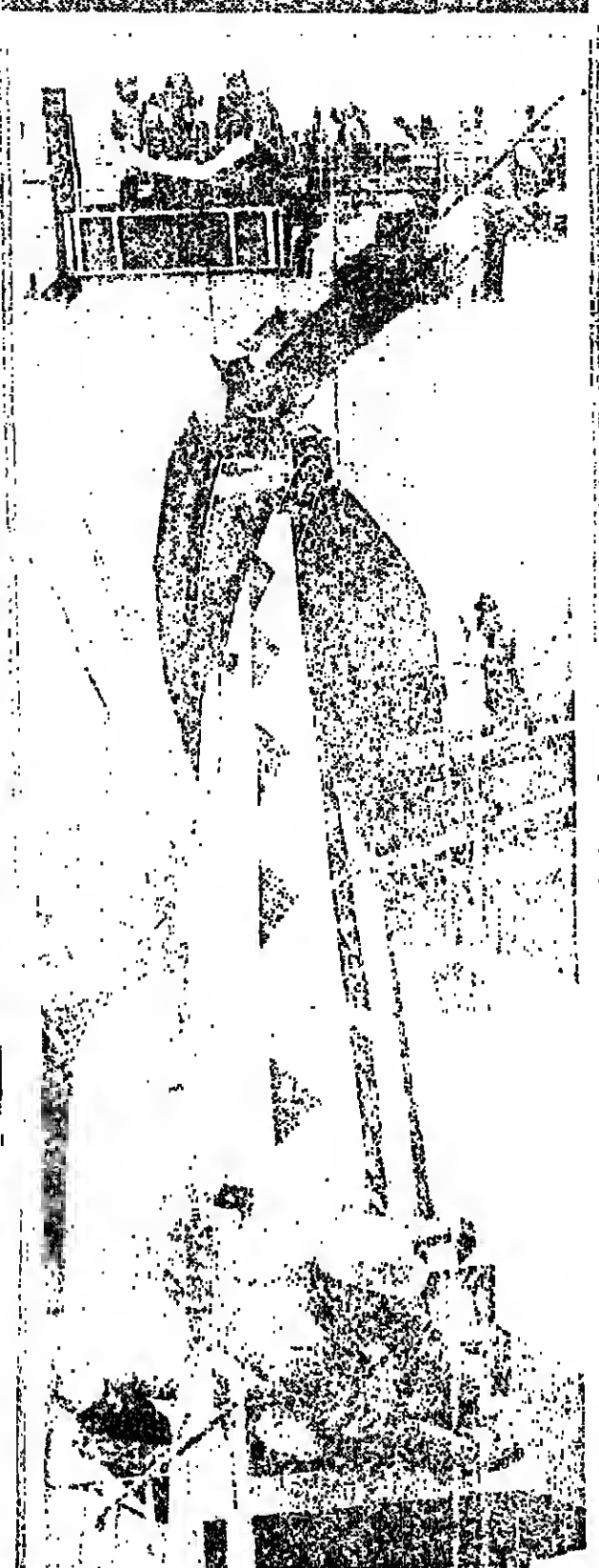
HIGHLY COMPLEX MACHINES

The well-known Bucharest Heavy Equipment Enterprise, specializing in heavy equipment has undergone several stages of modernization over the last years. The new technical equipment supplied to it has helped specialists manufacture increasingly more complex machines. Standing out among them are the 700



Two new types of turbo-generators with 50 MW steam turbines and turbo-generator have been assembled here. They are meant for central coal-fired plants and they allow of important savings of conventional fuel.

At the same time, of IMGB, the 15th exemplar in the series of 320 MW turbines has been recently produced. A novelty of these days. Highly technical medium heat interchangers have also been set into mass production.



Needing completion is the complex regulation of the Argeș river, mainly important for laying out a waterway, but also for setting up new irrigation systems. This plan was approved from the Sibiu Dam, 21 km away from Bucharest. When works come to an end the dam will enclose a storage lake covering 500 ha.

ONE OF THE MOST EFFICIENT DRUGS

That which four years ago was just dream of has now become reality. The discovery, made by doctors Ardelian and Ludovic Eithea, husband and wife, successfully passed lab tests and the drug, proposed by the two doctors, Elhor, countri physicians was exported on a large number of patients with various hepatobiliary affections. The invention, called in a first stage "Phyllotherapeutic Drug for Choriohepatobiliary Affections" has been patented until now in the USA, Austria, France and will be patented in the USSR, Japan, Switzerland and West Germany. Based on the research contract concluded with the National Committee for Science and Technology and thanks to the help granted by the Health Ministry, clinical experiments have been and are carried out in a section of Ilir County Hospital. Last spring a new treatment base with 100 beds was founded within "Loloma" hospital of Fetești. Specialized tests were made by the Institute for the State Control of Drugs and pharmaceutical researches were carried out in collaboration with university staff from Cluj Napoca and Targu Mures. The plant extract proved its efficiency in hundreds of cases leading to therapeutic motivation and even efficiency in the healing of various hepatic affections, some of them very severe. Starting this year, the drug under the term of phyllo, made by Plantivora Lab in Ploesti, Neamt, will be found, distributed under the name of Elhor. It will be one of the most efficient hepatobiliary drugs in the world.



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